

WHAT IS CLAIMED IS:

1. A compressor component incorporated into a compressor having a compressor body and a pulley mechanism transmitting a driving force to said compressor body, said component having an austenite grain with a grain size number falling within a range exceeding 10.

2. A compressor component incorporated into a compressor having a compressor body and a pulley mechanism transmitting a driving force to said compressor body, said component having a fracture stress value of at least 2650 MPa.

3. A compressor component incorporated into a compressor having a compressor body and a pulley mechanism transmitting a driving force to said compressor body, said component having a hydrogen content of at most 0.5 ppm.

4. A compressor bearing for use in a compressor having a compressor body and a pulley mechanism transmitting a driving force to said compressor body, wherein at least one member of a member having a railway surface and a plurality of rolling elements included in said compressor bearing has an austenite grain with a grain
5 size number falling within a range exceeding 10.

5. The compressor bearing according to claim 4, wherein said compressor bearing is a swash plate support bearing rotatably supporting a swash plate and a rotating member of said compressor body.

6. The compressor bearing according to claim 5, wherein said swash plate support bearing is a needle roller thrust bearing.

7. The compressor bearing according to claim 4, wherein said compressor bearing is a rotating member/pulley support member bearing rotatably supporting a rotating member of said compressor body and a pulley bearing support member of said pulley mechanism.

8. The compressor bearing according to claim 7, wherein said rotating member/pulley support member bearing is a needle roller thrust bearing.

9. The compressor bearing according to claim 4, wherein said compressor bearing is a main shaft support bearing rotatably supporting a main shaft of said compressor body and a pulley bearing support member of said pulley mechanism.

10. The compressor bearing according to claim 4, wherein said compressor bearing is a pulley support bearing rotatably supporting a pulley and a pulley bearing support member of said pulley mechanism.

11. A compressor bearing for use in a compressor having a compressor body and a pulley mechanism transmitting a driving force to said compressor body, wherein
at least one member of a member having a railway surface and a plurality of rolling elements included in said compressor bearing has a fracture stress value of at
least 2650 MPa.

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12. The compressor bearing according to claim 11, wherein said compressor bearing is a swash plate support bearing rotatably supporting a swash plate and a rotating member of said compressor body.

13. The compressor bearing according to claim 12, wherein said swash plate support bearing is a needle roller thrust bearing.

14. The compressor bearing according to claim 11, wherein said compressor bearing is a rotating member/pulley support member bearing rotatably supporting a rotating member of said compressor body and a pulley bearing support member of said pulley mechanism.

15. The compressor bearing according to claim 14, wherein said rotating member/pulley support member bearing is a needle roller thrust bearing.

16. The compressor bearing according to claim 11, wherein said compressor bearing is a main shaft support bearing rotatably supporting a main shaft of said compressor body and a pulley bearing support member of said pulley mechanism.

17. The compressor bearing according to claim 11, wherein said compressor bearing is a pulley support bearing rotatably supporting a pulley and a pulley bearing support member of said pulley mechanism.

18. A compressor bearing for use in a compressor having a compressor body and a pulley mechanism transmitting a driving force to said compressor body, wherein
at least one member of a member having a railway surface and a plurality of rolling elements included in said compressor bearing has a hydrogen content of at most
0.5 ppm.

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19. The compressor bearing according to claim 18, wherein said compressor bearing is a swash plate support bearing rotatably supporting a swash plate and a rotating member of said compressor body.

20. The compressor bearing according to claim 19, wherein said swash plate support bearing is a needle roller thrust bearing.

21. The compressor bearing according to claim 18, wherein said compressor bearing is a rotating member/pulley support member bearing rotatably supporting a rotating member of said compressor body and a pulley bearing support member of said pulley mechanism.

22. The compressor bearing according to claim 21, wherein said rotating member/pulley support member bearing is a needle roller thrust bearing.

23. The compressor bearing according to claim 18, wherein said compressor bearing is a main shaft support bearing rotatably supporting a main shaft of said compressor body and a pulley bearing support member of said pulley mechanism.

24. The compressor bearing according to claim 18, wherein said compressor bearing is a pulley support bearing rotatably supporting a pulley and a pulley bearing support member of said pulley mechanism.